5. A strong science program and a flexible management regime are essential to improving flow criteria

- Current science provides enough insight to act
- Role of uncertainty Uncertainty always exists but science can reduce key uncertainties
- Managing uncertainty Adaptive management with emphasis on integration, synthesis, and action
- Support science targeted to where better answers are most needed

1. Environmental flows are more than just volumes of inflows and outflows

- Timing, duration, frequency, and rate of change of flows need consideration
- Science setting flow criteria for rivers has advanced substantially

 Flow criteria for estuaries are especially challenging with tidal, fluvial, and landscape components

San Joaquin Rive

2. Recent flow regimes both harm native species and encourage non-native species

- Variability and complexity across the estuarine landscape better support native species
- Flow stabilization harms native species and encourages non-native species





3. Flow is a major determinant of habitat and transport

- Floodplain activation flows that connect floodplains and channels are beneficial
- In-Delta net channel flows dominated by tides but net flows biologically relevant
- Net Delta outflow higher seasonal outflows provide variable habitats favorable for native fish communities

4. Recent Delta environmental flows are insufficient to support native Delta fishes for today's habitats

- Adequate winter-spring inflows and outflows benefit native fish populations
- Flow and physical habitat interact but are not interchangeable
- Do habitat and flow restoration jointly



